

GP 17-03-01	Emergency Shower and Eyewash Facilities	December 2004
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Emergency Shower and Eyewash Facilities

GP 17-03-01

Scope

- 1) [I] This Global Practice (GP) covers the design and installation of emergency shower and eyewash facilities for the emergency treatment of the eyes or body of a person who has been exposed to dangerous material.

Installations in laboratory buildings are not covered in this Practice.

- 2) [I] An asterisk (*) indicates that additional information is required. If a job is contracted, this additional information is furnished in the job specification.
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1. Required References

This Section lists the Practice and Standard that are generically referenced and assumed to be a part of this document. Unless otherwise specified herein, use the latest edition.

1.1. Global Practices–ExxonMobil Engineering Practices

GP 03-09-01	Winterizing and Protection Against Ambient Temperatures
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1.2. ISEA–Industrial Safety Equipment Association

ISEA Z358.1	Emergency Eyewash and Shower Equipment
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[I] The facilities described herein apply to installation in the U.S. and in countries with no comparable standards. Where compliance with any code or standard by a local jurisdiction is mandatory, the requirements prescribed therein shall also be met.

2. Definitions

* [I] Dangerous materials, as used herein, include only the following:

- 1) Acutely toxic materials such as phenol.
- 2) Highly corrosive materials such as acid and caustic.

3. System Design

3.1. Water Supply

[S] Only potable water supplies are permitted for use with safety showers and eyewash facilities. The supply water to the facilities shall be constant. All block valves in the system shall be car sealed open.

3.2. Temperature Control

- 1) * [S] The design shall be suitable for the climate zone specified (see [GP 03-09-01](#)). Where the effect of solar radiation is a consideration, exposed piping shall be insulated. Anti-scalding devices should be used where required to prevent personnel exposure to hot water (due to solar radiation on the piping) when activating the safety shower/eye wash.

[S] The water temperature at the shower and eyewash shall be maintained at between 60°F and 95°F (15°C and 35°C) based on 15 minutes continuous operation of the shower.

- 3) [S] If a hot water heater tank is used, it shall have an electric immersion type heating element and thermostatic control. The minimum capacity of the tank shall be 150 gal (568 L).

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